Globalization and Real Estate: Issues, Implications, Opportunities

Authors
Bardhan, Ashok Deo
Kroll, Cynthia A.

Publication Date
2007-04-01
Globalization and Real Estate: Issues, Implications, Opportunities
Ashok Bardhan and Cynthia A. Kroll

Introduction

Real estate has historically been viewed as a local phenomenon. Builders and investors for decades prided themselves in their ability to find the best "location, location, location" based on their local knowledge. It is among the least "tradable" of products, in the sense of being physically unmovable, even though it can be bought and sold both domestically and internationally. This combination of local knowledge and predominantly local tradability was the primary reason why discussions of globalization in the 1990s and earlier overlooked the real estate industry as a possible participant in the ongoing phenomenon of increasing global economic integration. Although an occasional headline would be grabbed by a foreign purchase of a local landmark (New York's Rockefeller Center, Arco Plaza in Los Angeles, and even the Pebble Beach resort), the business itself remained largely local, with US firms dominating in US markets, and foreign firms in foreign markets.

In the last decade, however, globalization has increasingly involved the internationalization of services sectors as much as of manufacturing, and the various sub-sectors of the real estate industry have been enthusiastic participants in this global surge. Builders, brokerage firms, consulting and services firms, real estate finance firms and investors have extended their area of operations beyond local markets to a worldwide base.

Several factors have led to this transformation of the industry. Technological changes have extended the geographic reach and weakened the nexus between “local” and “location.” The opening up of formerly closed economies in the developing world has provided significant opportunities for real estate firms across the globe. Liberalization of business licensing, taxation, and property ownership regulations in some of the largest emerging real estate markets further facilitates the participation by US real estate firms in global opportunities.

On the financial investment side, securitization and development of a variety of different financial instruments all over the world lend liquidity and tradability to both real estate equity and debt. While foreign investors are able to invest in these financial assets in the United States, diversification motives and the search for a different risk-return profile lead many US investors to add foreign real estate physical assets or foreign real-estate-related financial securities to their portfolio. The increasing integration of global financial markets, in their turn, tends to impact the pricing of these assets.

On the demand side, some of the largest consumers of real estate are becoming increasingly global. Multinational firms, with their manufacturing plants, their distributors and suppliers, and now...
increasingly service sector firms, ranging from financial to legal, have global footprints. Offshoring, or the transfer of production facilities, back-offices and R&D centers by US multinationals to developing countries has given a major boost to commercial real estate in those countries. Of greater significance for the US real estate industry, major US real estate service firms have followed these clients abroad, expanding the types of services provided, as well as their geographic coverage. Even residential real estate brokerage firms have followed an increasingly mobile expatriate population into the international arena, forging alliances with companies throughout the globe to provide relocation services and worldwide access to residential markets. Additionally, the emergent middle-class in Asia and elsewhere with their pent up demand are boosting residential and retail real estate activity, providing a new range of opportunities for forward-looking US firms.

Globalization, in general, and offshoring in particular, have also had direct and indirect effects on the supply chain for real estate construction. Offshoring, made possible by low labor costs in developing countries and advances in transportation and shipping, has led to the global sourcing of inputs, such as steel and wood products. At the same time, US builders are competing for inputs, equipment, and resources in the face of growing worldwide demand led by the emerging economies of Asia. China has become both a leading producer and consumer of many building materials, and questions exist as to whether growth will lead to excess capacity or excess demand in coming years. Either could significantly affect the building process and real estate prices in the United States.

**Defining the US Real Estate Industry**

The real estate "industry" spans across several industrial categories, including individual sectors within the broader groupings of services, finance and construction. The sector defined by the North American Industrial Classification System as real estate (NAICS 531) includes only real estate services such as leasing, brokerage, management and appraisal. This segment of the industry employed 1.5 million nationwide in 2006 (just over one percent of the US employed labor force).

Real estate finance, including the mortgage industry, related financial activity, and real estate investment trusts (REITs), employs an additional half million. Building construction and land subdivision firms are also major players in the real estate industry, with 1.8 million employees in 2006. An additional 1.5 million were employed in real estate related professional services such as architecture, engineering and design. The overall employment in the real estate cluster is therefore close to 5 million, accounting for about 3.5 percent of the employed labor force.

When it comes to the international operations of US firms, a significant amount of real estate related activity gets subsumed under other categories. Real estate developers and service providers work in tandem with multinational companies and other clients to ensure that the entities are "housed" wherever they are located globally. Thus, an investment by a corporation in a company facility abroad, whether in manufacturing, warehousing, retail or office space is also a real estate transaction. There is also a real estate “component” to transactions, both domestic and international, that spill over into public sector infrastructure and natural resources, as well as with respect to firms belonging to a broad range of non-real estate related sectors, to the extent that some firms in each of these sectors employ real estate professionals for daily operations.

**Measuring Globalization in Real Estate**

Globalization of an industry usually encompasses three different kinds of activity: first, international trade in goods and services that the industry produces; second, cross-border investment in facilities for production, sales, distribution of the output or of some element of the supply chain; and
International Investments in Real Estate

The lack of “international trade” in real estate is now being compensated for by increasing cross-border investments in real estate, international development projects, multinational real estate ventures and integrated township/housing developments, not just in markets traditionally hospitable to foreign investments, such as Europe and North America, but increasingly in the real estate markets of the developing world. The motivations of foreign investors have been varied, and include stable and solid returns, a quest for diversification, as well as the role of US real estate and other assets as a refuge of “last resort.”

Foreign direct investment (FDI) in US real estate has had a long history, but unfortunately the official data seriously underestimate foreign direct investment in US real estate and US real estate investment abroad. According to official US Department of Commerce data, by 1990 there was only $30 billion (on a historical cost basis) invested in US real estate by foreign individuals, firms and organizations. Except for a momentary dip from 2002 to 2003, FDI has been rising steadily, as have

---

2 Defined by the US Dept of Commerce as ownership or control, directly or indirectly, by one foreign person, or entity, of 10 percent or more of the voting securities of an incorporated domestic business enterprise or an equivalent interest in an unincorporated domestic business enterprise.
the official numbers on direct investment by US investors in foreign real estate (direct investment abroad or DIA) since 2002.

We believe the real estate figures for both FDI and DIA understate the extent of foreign investment in physical real estate because company investments in facilities are frequently counted as part of company investment in its main line of business/industrial sector (e.g. manufacturing), rather than as a real estate investment. As a rough guide, in the domestic investment figures of the US national accounts, investment in structures (or the real estate component) on average accounts for close to one-third of all business investment. The overall figures for the 2005 year-end position for FDI in the US and DIA by the US for all sectors are $2.8 trillion and $3.5 trillion, respectively, in market value terms. The real estate sector accounts for a negligible share of the total, which based on the official figures is in the range of one to two percent. Applying the “one-third rule” mentioned above, reflecting the real estate content of investments in other sectors would increase the figures for international investments in real estate by an order of magnitude. Since this data discrepancy is a major issue, our research group has targeted for future research the estimation of the actual real estate “component” of FDI in the US and of US investment abroad.

While global capital flows have been of a significant magnitude for decades, recent years have seen a major increase in cross-country portfolio investments in both debt and equity instruments. Figure 1 shows the increasing role played by foreign central banks, organizations, and investors in the total US credit market (in addition to Treasuries and Agency-backed securities, this also includes corporate and municipal bonds, mortgages, other loans and consumer credit) in the post-war period. In addition to playing a big role in US credit markets, non-US entities also own a significant portion, approximately 15 percent, of the total US equities outstanding.

Figure 1
Total Credit Market Debt Held by Rest of World as Share of Total US Credit Market Debt Outstanding; 1945-2006

There are differing geographical patterns for foreign investments in US physical structures and in US financial securities. The same problematic FDI data that give an undercount of overall foreign investment in real estate show the developed European countries, such as Netherlands, the UK,
Germany, Switzerland, and Japan as the major investors in real physical assets. This pattern is similar to that of the country of origin of foreign investment in other sectors of the US economy, whether they are in manufacturing or services. In contrast to the pattern of country-wise holdings in real estate physical assets, where the developed, industrialized countries are the major players, China has been the largest investor in US Agency bonds, issued by Government Sponsored Enterprises, such as Fannie Mae and Freddie Mac (see Table 1).

Table 1:
Top 10 Foreign Holders of US Securities, June 2005

<table>
<thead>
<tr>
<th>Country</th>
<th>Share*</th>
<th>Country</th>
<th>Share*</th>
<th>Country</th>
<th>Share*</th>
<th>Country</th>
<th>Share*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Japan</td>
<td>35%</td>
<td>China</td>
<td>20%</td>
<td>UK</td>
<td>9%</td>
<td>Belgium</td>
<td>13%</td>
</tr>
<tr>
<td>China</td>
<td>16%</td>
<td>Japan</td>
<td>15%</td>
<td>Canada</td>
<td>8%</td>
<td>Lux.</td>
<td>12%</td>
</tr>
<tr>
<td>Taiwan</td>
<td>4%</td>
<td>Russia</td>
<td>8%</td>
<td>Japan</td>
<td>6%</td>
<td>UK</td>
<td>12%</td>
</tr>
<tr>
<td>S Korea</td>
<td>3%</td>
<td>Belgium</td>
<td>5%</td>
<td>Netherlands</td>
<td>6%</td>
<td>Cay. Is.</td>
<td>10%</td>
</tr>
<tr>
<td>UK</td>
<td>3%</td>
<td>Cay. Is.</td>
<td>5%</td>
<td>Cay. Is.</td>
<td>6%</td>
<td>Japan</td>
<td>6%</td>
</tr>
<tr>
<td>Germany</td>
<td>2%</td>
<td>S Korea</td>
<td>5%</td>
<td>Lux.</td>
<td>5%</td>
<td>Ireland</td>
<td>5%</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>2%</td>
<td>Luxembourg</td>
<td>5%</td>
<td>Switz.</td>
<td>5%</td>
<td>Bermuda</td>
<td>4%</td>
</tr>
<tr>
<td>Luxembourg</td>
<td>2%</td>
<td>Taiwan</td>
<td>4%</td>
<td>Singapore</td>
<td>3%</td>
<td>Canada</td>
<td>3%</td>
</tr>
<tr>
<td>Cayman Is.</td>
<td>2%</td>
<td>Bermuda</td>
<td>3%</td>
<td>Germany</td>
<td>3%</td>
<td>Neth.</td>
<td>3%</td>
</tr>
<tr>
<td>Switzerland</td>
<td>2%</td>
<td>Mexico</td>
<td>3%</td>
<td>France</td>
<td>3%</td>
<td>Switz.</td>
<td>3%</td>
</tr>
</tbody>
</table>


Table 1 gives shares of US financial securities held by various countries as a percentage of the total held by foreigners. The absolute amounts are quite significant. For example, out of a total of $6.6 trillion of overall outstanding agency debt, close to $1.2 trillion (or about 18 percent) is held by foreign entities. Net annual purchases of Treasury bonds and company stocks have fluctuated, although rising on average over the past decade, while there has been steady growth in the foreign purchase of both Agency and corporate bonds. Over the last few years, there has been a trend on the part of foreign investors, particularly Asian central banks, to move away from the purchases of US Treasuries and invest more in Agency bonds and mortgage-backed securities. Net annual foreign purchases of US Treasuries peaked in the year 2004 at $350 billion and have come down to $200 billion in 2006, while net purchases of Agencies by foreigners have risen steadily, from around $150 billion in the year 2000 to nearly $300 billion in 2006 (see Figure 2).
A number of ongoing studies, including one by the Fisher Center, deal with issues relating to the foreign financing of US debt and its impact on US interest rates, including the mortgage rate. There is a general consensus that the major purchases of credit market instruments by foreign investors have been a factor in keeping US interest rates low, but there is a range of opinion regarding the potential vulnerability of the US financial system, in general, and the future course of the dollar, in particular.

Diversification and risk reduction possibilities for international real estate investors have increasingly lured them into new markets. Demand from endowments and pension funds for foreign real estate investments are helping to drive the trend. Some of the push is driven by a belief that overseas markets offer more opportunities and higher investment returns than US markets (Luxember 2007a and 2007b; Bardhan, Edelstein and Tsang 2006). There is some evidence that cross-continent investment can offer increased diversification, as shown by a study by Torto Wheaton Research on the correlation of rent within and between continents (Torto 2002). However, our discussions with real estate investment firm executives and economists specializing in international finance indicate concern that geographic diversification may not always be forthcoming. Indeed, connected to this trend of greater international participation by investors in most national markets is the phenomenon of financial market contagion. The Asian crisis of 1997 was an early indicator of the nexus between real estate and banking crises, on the one hand, and the interconnectedness of financial markets in the region, on the other.

Yet another aspect of globalization and its impact on the world of real estate is the demonstration effect and impact of the US institutional structure on real estate and mortgage markets in the emerging economies. Experts and policy makers in Asian countries, for example, are trying to model various aspects of their mortgage markets after the US mortgage markets, including the range of mortgage products, aspects of risk-based pricing, appraisal standards, secondary markets for mortgage-backed securities, provision of affordable housing, and mortgage insurance. (Allen, Chui, Maddaloni, 2004; Ong, 2005; Zhu, 2006; Deng, Zheng, Ling, 2004).
Global Sourcing and the Real Estate Supply Chain

The supply chain for real estate is affected by two separate phenomena, both connected to globalization. The interplay of offshoring and real estate can be seen in the transfer of some back-office activities in the US real estate cluster itself, for example in the movement of US design/architecture, real estate finance and property management to firm divisions or outsourcers in India. However, from the point of view of US real estate and construction firms, the possibility of offshoring some elements of their supply chain cost-centers to cheaper locations can potentially be a mixed blessing. The growth in emerging markets, partly fueled by offshoring of manufacturing and services jobs from developed countries, has led to a rapid growth in demand for mineral resources, building materials and other inputs, leading to a sizeable impact on global prices.

A few charts illustrate some of the trends taking place in the markets for key commodities. Figure 3 shows import and export trends for nonmetal building materials and iron and steel, adjusted for inflation using the Producer Price Index, from 1978 through 2006. Exports (by value, adjusted for inflation) are currently higher than they were in 1980 but lower than in the mid-1990s. Building material imports are more than 4 times their 1980 level and the rate of growth of imports accelerated sharply in the 1990s, as shown in Figure 4. This is comparable to the overall change in levels of imports in the United States.

Figure 3
Import and Export Trends, Building Materials
1978-2006 ($ millions, 2006 base)

Source: US Bureau of Economic Analysis, International Transactions Accounts data; adjusted for inflation with the producer price index.
*except metals
The increasingly global nature of the supply chain is reflected in consumption patterns as well as in import and export flows. The International Iron and Steel Institute, for example, reports a broad shift in relative levels of steel consumption between China and the United States, as shown in Figure 5. Data also show that the global competition for limited key resources and materials has coincided with sharp increases in the price of some building materials (see Figure 6). However, it is possible that the supply crunch, at least for some of the commodities, is temporary, and that the combination of efficient
global allocations of plants, technological change, and scale economies will boost globalizing supply and help meet the global growth in demand (Linneman 2006). In addition, discussion with real estate developers as well as a presentation on the real estate supply chain (Madhavan 2007) suggest that the proportion of inputs whose prices are rising quickly on the global markets constitute a relatively small share of the total inputs used in the real estate sector (perhaps as low as 5 percent, based on an estimate from the US Economic Census), and that the key costs are labor costs. The effect is likely to be different in the emerging economies where the proportion of labor costs is lower and that of inputs higher.

**Figure 6**

Selected Building Products Price Indices
1990-2005


**Economic Growth and Global Opportunities**

Three broad factors have come together at this economic moment and given rise to global real estate opportunities, particularly in the emerging economies. These include the rapid economic growth experienced by these countries, changing demographics (both in developed and developing countries), and the phenomenon of offshoring. Opportunities have been created by the recent opening up of countries in the developing world, and also by the widespread fragmentation of real estate markets in emerging economies, the proliferation of family owned-traditional firms and the accompanying lack of professionalization in the sector. While the manufacturing and services sectors in these countries have always had at least a few firms that were efficient adopters of global best practices in organization and management, the real estate sector, in a sense, has been a late-comer to modernization itself, although even in the real estate sector, every developing country has examples of state-of-the-art hotels, office buildings, and residential complexes.

The offshoring of white-collar jobs from the United States to India has gathered steam in the last decade or so, joining the outmigration of blue-collar manufacturing jobs to China. This has implications for real estate on both sides of the offshoring divide. The increasing possibilities of global sourcing more broadly have the potential of impacting urban space, form and structure, and
consequently, the demand for real estate. An underlying reason for the formation of industrial and urban clusters and agglomerations has been the benefits derived from locating near upstream and downstream firms. The growth in offshoring can therefore mitigate the need for sectoral clustering. Some potential impacts on the US office and industrial markets are discussed in Bardhan and Kroll 2003. Of course, this process can go hand-in-hand with a cluster developing at the receiving end, and we see the growth of the high-tech oriented urban metros of Bangalore and Hyderabad in India, as well as of a number of cities in China.

A comparative look at office markets across a group of global cities underscores the broad range and diversity in prices and illustrates some of the trends in the global economy. Countries at different stages of development offer opportunities for the introduction of new real estate products and services. Figure 7 shows relative leasing costs for office space for the ten most costly markets worldwide in 2000 and 2006.

The change in the composition of the leading office markets between 2000 and 2006 demonstrates how quickly urban commercial real estate markets in emerging economies can become part of the global bidding process. Places like Mumbai and New Delhi were not even on the list of Grubb and Ellis' top 60 markets in 2000 or 2001. Status on the list can change quickly. Three US markets made the top ten in 2000, riding on the coattails of the dot-com boom and the related financial boom, and San Jose was the third most expensive metro office market worldwide. By 2006, no US market was in the top 10. The US markets that were in the top 10 in 2000 are not shown in Figure 7 because they are no longer in the top 10--midtown New York had the highest US rents, at $76, San Francisco rents were down to $41, and San Jose to $31.

One of the key areas of opportunity for firms from developed countries, and from the United States in particular, is in the fast growing economies of Asia. India and China, for example, still have the majority of their population in rural areas, in contrast to more advanced economies, where more than three fourths of the population resides in urbanized areas (see Figure 8). Strong, regionally
disparate growth in key urban areas in both countries is driving domestic, internal labor mobility, and together with the burgeoning middle-class, is responsible for an upsurge in demand for residential real estate, in spite of the housing price to income ratio relative to the industrialized countries. In addition to rapid growth and urbanization, recent financial reforms and developments have resulted in greater availability of mortgages at the relatively low, global interest rates.

At the same time, a number of factors have led to an increase in demand for all other categories of real estate (Conner, Halle, 2006; Conner, Liang, 2006). Higher tax revenues for the governments have inspired serious spending on many infrastructure projects, such as highways, dams, bridges and so-forth. Greater disposable incomes, at least in a certain segment of the urbanized upper middle-class, and emergent consumerist attitudes have spurred a retail boom; and increased internal and external trade have led to increased demand for warehousing space, as well as improvements in existing and construction of new ports and airports.

In addition to both rising commercial and residential demand, and the opportunities that are presented to foreign players because of inadequate local capacity, there is yet another by-product of globalization that plays a role in generating opportunities for global players in these markets, particularly for US firms. The demonstration effect of high-quality US real estate, conveyed most effectively by expatriates and diaspora returnees, generates the kind of specific demand for certain type of real estate attributes, whether in Grade A office space or Silicon Valley style single family homes, which can in turn result in opportunities for US businesses. US real estate developers, services, and consulting firms have piggybacked on the major foray made by US multinationals into India and China, and have been instrumental in dealing with demand for all categories of real estate, both for purely business purposes, as well as for housing requirements of expats. Both China and India have attracted developers from nearby Asian locations, such as Hong Kong and Singapore, as well as construction companies from throughout the world to augment their capacity. Although US firms have played a limited role so far, either as intermediaries between US clients and local suppliers or in
providing a specialized skill, the past couple of years have seen a significant increase in US interest in the region.

The demographic profile in many of the emerging market giants is also suggestive of future opportunities. Household size, for example, is related to many factors, including income levels, and the historical and cultural context. Most of the developing countries have four or more persons per household (see Figure 9), but there is broad expectation that income growth, labor mobility, proliferation of unitary households, and the breakdown of traditional joint families would tend to reduce the number of persons per household, which in turn would increase the demand for housing units.

Figure 9
Household Size by Country
(2000/2001 unless otherwise noted)

The changing age profile of the population in both industrialized and developing countries has major implications for all aspects of the economy, including real estate. While both types of countries have seen a decrease in the number of young dependents relative to adults of working age, there are projections of a sharp rise in the number of aging dependents over the next few decades for the industrialized world, and for a healthy share of working adults, with large numbers in the home-buying cohort, in the developing world (see Figure 10).

US real estate firms have begun to respond to these opportunities in a variety of ways. Company records, interviews, and a survey of selected real estate firms shows movement first to markets in other developed countries, where economic structure and underlying institutional support is often similar to the United States. The increasing trend to invest in emerging and developing markets is a more recent phenomenon.

**Globalization of Real Estate Firm Characteristics.**

We draw on two sources of information to examine to what extent real estate firms are expanding into global markets, the countries where they operate, and the motivations for these changes. We built a data set from the OneSource database that includes US firms in real estate categories with 500 or more employees. The OneSource sample includes 326 firms in real-estate related finance, real estate investment trusts, real estate services (brokerage and management), leisure and recreation related real estate, and construction as shown in Figure 11. From OneSource records, annual reports and websites, we determined which of these firms served market areas beyond the United States, and their geographic areas of operation.

---

3 In construction we include only firms whose construction activity involved real estate development, rather than those operating in infrastructure or technical facilities alone.
Only 13 percent of the large real estate firms listed in OneSource had global operations beyond the United States. Firms involved in real estate investment activity, including in the form of REITs or other investment vehicles, were more likely to be global than were firms involved in real estate services (see Figure 12). The brokerage and management category, which has the greatest number of firms, includes on the one hand, residential brokerage firms involved primarily in single family home sales, which were largely US-based (although a few had alliances with companies overseas that allowed them to provide international relocation services to their customers), and on the other hand, some of the largest commercial real estate services firms, which provide a wide package of services to clients throughout the world. The finance category also represents a wide range of activities, from firms specializing in single family home loans (largely locally based), to firms that develop real estate investment pools and collective trusts for private investors (often international in scope).
Most of the companies in this database were more likely to have global activities in Europe or North America (Mexico and/or Canada), than in Asia. The pattern for construction firms, however, was somewhat different than for other real estate firms—a larger share was involved in Asia and the Middle East than in Europe and North America. The construction firms involved in Asia and the Middle East were primarily those serving specialized sectors and infrastructure needs, such as the energy sector or specialized manufacturing.

A second source of information was a survey of the 168 policy advisory board members of the Fisher Center for Real Estate and Urban Economics, who represent a broad range of large real estate finance and service firms, including legal, consulting, and design firms as well as core real estate brokerage and management firms. The survey was conducted in February and March 2007 via e-mail and the web. Responses came from 44 (26 percent of those surveyed). The responses are clearly self selecting, with those involved in global operations more likely to respond. From the point of view of a major purpose of the survey, to learn where and why firms were involved in global activities, the self-filtering issue is not a big concern. Of greater importance in interpreting the response is the location profile of the survey sample firms compared to the OneSource database. While the survey sample of firms includes companies from throughout the United States, it is more heavily weighted towards firms headquartered in California than is the OneSource sample. Later research will involve an expanded set of questions and a broader sample group combined with more in-depth interviews of selected firms for purposes of case studies.

More than 60 percent of the firms responding to the survey were involved in global activity. The areas of international activity of firms in the survey were somewhat different from that of the firms in the OneSource database (see Figure 13). Europe was the geographic area most frequently cited for global activity, followed closely by Asia. Canada and Mexico played less of a role than among firms in the OneSource database.
Firms were asked not only about current plans but about future regions/countries under consideration for expansion. Asia was the region most frequently mentioned, followed by Mexico and Canada, as shown in Figure 14. Almost all of the firms planning future global business expansion were already involved in international real estate activity.

Firms with global activities were almost entirely involved in investment or development activity (or in most cases both), while a much smaller number were involved in brokerage, consulting, or other services. The primary motivation for moving into other markets was to provide more diversification to the pool of investments (Figure 15). While most firms selected global markets based on their expert opinion on relative risks and returns, in some cases, especially with moves into Asia, the firm was responding to demand from their investors and shareholders, despite some concerns over the risks and potential returns. As one respondent noted, the firm's strategy of concentrating on markets in Europe, which they perceived as more predictable and reliable, was beginning to lose them clients who wanted to take advantage of the opportunity for potential higher returns in Asia. Some service firms and REITs specializing in specific product types were also drawn to global markets by potential demand from foreign customers, or by requests from existing multinational clients.
Observing global moves by different types of real estate firms provides some insight into the competitive advantages of US real estate firms. Real estate services firms have been able to move from the United States to a global market place through the ability to transfer a broad mix of services, from brokerage to property management to relocation services to technology advances, to the multinational customers they have served at home. REITs and private developers have found niches of expertise to help them compete in global markets--moving into China and Mexico with US retail
center design and a mix of US and local tenants; offering multi-tenant warehouse and industrial space in Japan and other markets where single tenant and owner-occupied space has dominated development; providing large scale housing development in markets that have relied on smaller scale residential development; and exporting a variety of leisure communities to both developed and developing countries.

Even with these successful moves, the US real estate industry faces significant competition for growing worldwide real estate opportunities. Singapore and Hong Kong developers, for example, have been far more active than US firms in China and India's expanding real estate markets. European firms have shown a strong ability to compete in architecture and urban design.

**Research Issues and Concluding Remarks**

Real estate markets are particularly complex because a number of economic and “extra-economic” factors go into the determination of economic outcomes. Figure 16 gives a schematic overview of some of the underlying economic and other factors that shape the response of real estate to globalization, and the channels through which they influence real estate markets – the prices, quantities, composition, structure and so-forth.

![Figure 16](image)

Interplay of Globalization and Real Estate: Some Research Issues

The combination of the non-tradability of the underlying physical asset and the relative inelasticity of supply make the interplay of globalization and real estate unique, from a research point of view. In addition to the research issues brought up earlier in this report, there are some other questions that arise. One research question deals with the potential impact of globalization on prices and rents in real estate markets in fast-opening economies (Bardhan, Edelstein and Leung 2004). The impact of global sourcing on real estate firm organization and management challenges are another issue that requires attention. While some issues relating to portfolio diversification through investing in publicly traded international real estate firms have been studied, the increasing integration of financial
markets, their co-movement, contagion effects, cross-listing of real estate securities, the nexus between banking and real estate, and the growing role of capital markets in financing real estate are other areas where more research is required.

The effect on current real estate markets of global migrations of people is yet another example of the impact of globalization on real estate. Some analysts have commented on the role of foreign born (the largest cohort in US history since 1910) in the recent housing boom in the United States. While there has been anecdotal evidence on their purchasing power, home-buying proclivity, etc. (particularly in some key coastal markets), the question is still wide open. The other real estate related issue brought about by the global movement of people is connected to the hospitality sector; analysts expect strong growth in global tourism in the coming years, primarily fuelled by the large numbers of Chinese citizens venturing abroad.

The effect of this globalization on the employment side of the industry is also an open question. As US real estate firms expand operations as well as investments overseas, the "local" aspect of the industry reemerges. Foreign offices most often involve local acquisitions, partnerships, or the hiring of local staff. One design firm interviewed as part of a related study noted that in the early period of operations in China, much of the professional work was done within the US offices, but as the firm gained experience and broadened its local presence, far less of the international work was done within the United States and a greater share of offshore employees were local citizens. In India, with English language skills and institutional similarities, the great majority of real estate staff of US firms are Indian citizens.

The international prospects for real estate firms suggest a number of other unanswered questions that could be addressed by future research. A few to start off with include:

What additional data are needed to better understand the flows of real estate related capital among countries? How does the changing position of emerging economies in the global economy affect the real estate supply and demand balance in terms of where new development is required, price levels, competition for capital, and opportunities for and competitiveness of US firms relative to those from other industrialized countries? What innovations are needed in risk management for the future? What is the job creation impact domestically of US real estate investments abroad? What is the impact of global sourcing on urban agglomerations and clusters?

Globalization of the real estate industry is now a fact of economic life. Cross-border investments are increasingly common, both in physical assets and in portfolio investments; offshoring part of the supply chain is being increasingly resorted to; and variables from the field of international economics, such as openness, international capital flows, exchange rates and so-forth have an increasing impact on real estate markets.

US firms, along with firms from many other countries find themselves facing major opportunities and challenges in the suddenly global real estate market. Despite some institutional reforms, there are still significant differences among countries that complicate the process of development, ownership and leasing. Differences in business structure, demographic profiles, and cultural preference may present new opportunities for US builders, investors, and service providers but also require new approaches to analysis, design and investment for successful new ventures.

In spite of rapid globalization, it should be noted that real estate is still primarily influenced by local factors. Local knowledge, local economies, local actors and local institutions will continue to
play the significant role, albeit somewhat affected now by firms, consumers and economic influences from other, distant parts of the world.

References


